

Abstract Submitted  
for the DPP09 Meeting of  
The American Physical Society

**Full-orbit Studies of Alfvén Eigenmode Induced Fast-ion Losses in DIII-D**<sup>1</sup> G.J. KRAMER, R. NAZIKIAN, N.N. GORELENKOV, R.B. WHITE, Princeton Plasma Physics Laboratory, M.A. VAN ZEELAND, General Atomics, W.W. HEIDBRINK, UC-Irvine — In recent experiments at DIII-D, cases of a significant discrepancy between measured and predicted fast-ion pressure profiles have been documented. In the region of enhanced fast-ion diffusion strong Alfvénic activity was observed. In this paper we present results of full-orbit simulations of fast-ion transport and investigate to what extent the finite Larmor radius influences fast-ion transport. The simulations are done with the SPIRAL code and include the full magnetic and electrical field fluctuation contributions from the AEs.

<sup>1</sup>Supported by the US DOE under DE-AC02-09CH11466, DE-FC02-04ER54698, and SC-G903402.

Michio Okabayashi  
Princeton Plasma Physics Laboratory

Date submitted: 17 Jul 2009

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